# Ron Record

Specialties: Open Source Solutions, Multiple Programming Languages  
Blockchain Expertise, Cloud/Services Workflow Automation

## Education

* *Ph.D. Mathematics, University of California, Santa Cruz*
* Research in applications of dynamical system theory including models of marine snow, the Italian economy, cell morphogenesis, and population dynamics. Developed a software laboratory for algorithmically detecting the boundaries of basins of attraction in a chaotic dynamical system.
* [Erdős number:](https://en.wikipedia.org/wiki/Erd%C5%91s_number) Four
* Thesis Advisor: [Ralph Abraham](https://en.wikipedia.org/wiki/Ralph_Abraham_%28mathematician%29)

## Employment

2020-2021

*Principal Engineer*

Eloquent Cloud, LLC

2018-2020

*Big Chief*

Moonlight Mining Company

2012-2017

*Staff Engineer*

VMware, Inc.

2010-2012

*Artificial Intelligence and Virtual Reality research consultant*

Second Life

1983-2010

*Senior Open Source Architect*

Santa Cruz Operation (SCO)

## Recent Technical Experience

* Automation of billing, provisioning, and deployment of Cloud services
* [Solidity](https://en.wikipedia.org/wiki/Solidity) and [Plutus](https://plutus.readthedocs.io/en/latest/) smart contract development on the Ethereum and Cardano blockchains
* Development, packaging, distribution, support, and maintenance of several open source projects with automated continuous integration using the Gitlab CLI
  + [DriveCommandLine](https://gitlab.com/doctorfree/DriveCommandLine), manage Google Drive from the command line
  + [RoonCommandLine](https://gitlab.com/doctorfree/RoonCommandLine), command line control of the [Roon audio system](https://roonlabs.com/)
  + [MirrorCommand](https://gitlab.com/doctorfree/MirrorCommand), command line control of the [MagicMirror platform](https://magicmirror.builders/)
* Created prototype baseball card auction and trading site using the [InterPlanetary File System](https://en.wikipedia.org/wiki/InterPlanetary_File_System) (IPFS) and the [Filecoin](https://en.wikipedia.org/wiki/Filecoin) digital payment system

## Earlier Technical Highlights

* Developed the prototype for VMware’s Cloud Management of IoT device hubs
* Lead Technical Architect, SCO Linux
* SCO’s primary representative and voting member on the UnitedLinux Management team
* Technical Architect of SCO Open Source strategy and programs
* Founding member, [86open](https://en.wikipedia.org/wiki/Executable_and_Linkable_Format#86open)
* Senior SCO Security Officer
* Technical lead in research, planning & presentation of a 1990’s Cloud Computing initiative
* Created, designed & prototyped the [SCO Webtop](https://en.wikipedia.org/wiki/Web_desktop)
* Guided and coordinated a global team of engineers in the design and production of the SCO Skunkware CD-ROMs (Open Source solutions for developers and partners)
* Ported, integrated, packaged, distributed and maintained hundreds of Open Source projects
* Architect of GNUnix, an integrated Open Source and UNIX operating system and user environment
* Designed and implemented SCO world-wide source and revision control system
* Created energy efficient smart home using technology developed in the Automatic Guidance and Navigation group at NASA Ames Research Center

## Publications

* Gardini, L., R. H. Abraham, R. J. Record, D. Fournier-Prunaret, [1994] “A Double Logistic Map”, International Journal of Bifurcation and Chaos, Vol. 4, No. 1, 145-176
* Abraham, R. H., G. Chichilnisky, R. J. Record, [1994] “Dynamics of North-South Trade and the Environment”, Environmental Economics, Graciela Chichilnisky, ed., Mattei Foundation, Milan
* Co-author “Chaos in Discrete Dynamical Systems: A Visual Introduction in 2 Dimensions”, Telos/Springer-Verlag
* Co-author “Just Plane Chaos” teaching guide CD-ROM
* Co-author and presenter of a paper on Linux emulation at 1998 Summer USENIX
* Author “SCO and the Open Source Movement”, SCO World, Jan/Feb/Mar 1999
* Author “Porting Open Source Software to SCO”, SCO World, November/December 1999

## Social Media / Projects

* Blog: <https://blog.ronrecord.com>
* Facebook: <https://www.facebook.com/ronrecord>
* Github: <https://github.com/doctorfree>
* Instagram: <https://www.instagram.com/doctorfree>
* LinkedIn: <https://www.linkedin.com/in/ronrecord>
* Twitter: <https://twitter.com/ronrecord>
* YouTube: <https://www.youtube.com/c/doctorfree>

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